

July 12, 2016

Mr. Dinh Vo
Remediation Project Manager
NASA/John F. Kennedy Space Center
Mail Code: TA-A4B
Kennedy Space Center, Florida 32899

**Subject: Well Abandonments at Various Sites
John F. Kennedy Space Center, Florida
Contract No. NNK12CA14B-NNK14CA26T**

Dear Mr. Vo:

Jacobs Engineering Group Inc. and CORE Engineering & Construction, Inc. (Jacobs-CORE) are pleased to submit this letter report documenting well abandonment activities at various sites located at John F. Kennedy Space Center (KSC), Florida. The well abandonment activities documented in this report were conducted at the Orbiter Processing Facility 1 & 2 (OPF-1&2), OPF-3, Roads and Grounds Facility (RDG), Solid Rocket Booster (SRB) Processing Facility, and Hypergol Support Building (HSB).

1.0 BACKGROUND

On November 10, 2015, the National Aeronautics and Space Administration (NASA) Remediation Project Manager (RPM) assigned Jacobs-CORE with this second set of sites to complete monitoring well abandonment activities under Contract No. NNK12CA14B, Task Order No. 06. The sites and initial tasking included 51 wells:

- RDG: Abandon three monitoring wells (MW0001, MW0002, and MW0003).
- OPF-1&2: Abandon 18 monitoring wells (IW-1S, IW-1I, IW-2S, IW-2I, IW-3S, IW-3I, IW-4S, IW-4I, IW-5S, IW-5I, IW-6S, IW-7S, IW-7I, PZ-1S, PZ-2S, PZ-3S, PZ-4S, and PZ-5S).
- OPF-3: Abandon three monitoring wells (IW1S, IW01D, and IW02D).
- SRB: Abandon one monitoring well (K6446-IW-1S)
- HSB: Abandon nine monitoring wells (MW-1S, MW-3S, MW-3I, MW-4S, IW-4I, MW-5S, MW-6S, PZ-01, and PZ-02).
- Contractor Road Sandblast Area (CRSA): Abandon 11 monitoring wells (IW-1S, IW-2S, IW-3S, IW-3M, IW-4S, IW-5S, IW-6S, IW-7S, IW-8S, IW-9S, and IW-10S).
- Oak Hill Grove (OHG): Abandon two monitoring wells (existing 4-inch well and IW-1S).
- Schwartz Road Sandblast Area (SRSA) : Abandon four monitoring wells (MW-1S, MW-2S, MW-3S, and MW-4S).

Project expectations were discussed at the time of the assignment and the abandonment method for the wells was agreed to be “abandon-in-place” with removal of aboveground completions to restore each area to match existing surroundings.

An addendum (Addendum No. 5) to the Site-Specific Safety and Health Plan (SSSHP) for Contract No. NNK12CA14B was issued by Jacobs-CORE in November 2014 to address work to be performed under Task Order No. 06. The SSSHP addendum was coordinated with the NASA RPM and was accepted by NASA Safety and Environmental Health in November 2014. Attachment A for Addendum 5 was updated to address this group of wells specifically. The updated Attachment A was submitted to NASA RPM on December 17, 2015.

2.0 ABANDONMENT ACTIVITIES

The following sub-sections detail monitoring well abandonment activities completed at the various sites.

2.1 Pre-Abandonment Activities

Site reconnaissance visits were completed by Jacobs-CORE personnel on November 27, 2015 and on January 5, 2016 to locate and inspect monitoring wells identified for abandonment. A Global Positioning System (GPS) unit, metal detector, and hand tools were used during the reconnaissance activities to assist in locating wells. Of the 51 wells initially tasked for abandonment, a total of 23 wells were confirmed for abandonment. The 23 wells were located at five (OPF-1&2, OPF-3, RDG, SRB, and HSB) of the eight sites. Wells not confirmed were either:

- not able to be located, based upon site logistics such as piles of debris;
- previously abandoned during other site activities, such as remediation, demolition or construction; or
- were located but had already been abandoned.

A variety of polyvinyl chloride (PVC) wells with documented depths ranging between 11.6 to 51.45 feet below land surface (bls) and with diameters ranging from 1-inch to 2-inches were abandoned. A summary table, with information pertaining to the wells abandoned and wells not found and/or not abandoned, is provided as **Table 1**.

Following site reconnaissance, six well abandonment permits were issued by the Florida Department of Health – Brevard County (delegated authority from St. Johns River Water Management District) on January 21, 2016; Permit Numbers: 42964 (HSB), 42966 (OPF-1&2), 42967 (OPF-1&2), 42969 (OPF-3), 42970 (RDG), and 42971 (SRB). Each permit allowed for the inclusion of multiple wells within the scope of abandonment. Application and attainment of the permits was completed by a CORE staff member who is a Florida-licensed Water Well Contractor (License Number 2633).

2.2 Abandonment Activities

Well abandonment activities were completed at the five sites on January 29, February 1, and March 9, 2016. Abandonment activities were completed by Jacobs-CORE under the direction

and supervision of the CORE Florida-licensed Water Well Contractor. A total of 23 wells were abandoned-in-place with grout, and completions removed.

The following sub-sections detail the stages of abandonment activities.

2.2.1 Field Work

Prior to each day of field work, daily “tailgate meetings” were held to discuss the day’s activities, review health and safety concerns and protocol, and confirm communication procedures. The dig status and the day’s forecasted weather and weather warning protocols were also discussed during these meetings. All applicable project and site-specific documentation (permits, SSSHP, maps, etc.) was kept on-site throughout the duration of abandonment activities.

The first step of the abandonment process involved collecting depth-to-bottom and well diameter measurements from each well scoped for abandonment in order to calculate each well’s annular volume. Water and grout (neat cement) were then brought on-site and mixed beside each well’s location to appropriate density specifications. The grout mixture was gravity-fed into each well through a tremie pipe positioned near the bottom of the well. The tremie pipe was retracted when the grout mixture discharged out the top of the well at the same density as it was being added.

After allowing the grout to set, each well was inspected to determine if any settling occurred, and additional grout was added as necessary. Once the grouting process was complete, aboveground casings, risers, well vaults, and concrete pads were removed. Once aboveground completions were removed, each well location was grouted or graded to match existing surroundings. Completions on in asphalt were grouted to match a traffic surface; completions on natural surface were graded with grass seed spread to restore the site.

In total, 23 wells were abandoned at the sites, which encompassed 489.06 linear feet of abandonment. A summary table, with information pertaining to the wells abandoned, is provided as **Table 1**. Field notes from well abandonment activities along with abandonment permits, which includes site figures and coordinates, are provided in **Appendix A**.

2.2.2 Disposal

Material disposal was completed after all well abandonment activities were complete. Under direction of the NASA RPM, debris (concrete, PVC casing, etc.) from the abandonment were taken to the permitted KSC construction debris landfill located on Schwartz Road.

2.2.3 Well Completion Reports

Well completion reports were submitted back to the Florida Department of Health – Brevard County for each issued permit. The completion reports were completed and relinquished by the CORE Florida-licensed Water Well Contractor. Copies of the completed well abandonment permits are provided in **Appendix A**.

3.0 SUMMARY

Between January 29 and March 9, 2016, a total of 23 monitoring wells were properly abandoned-in-place at five KSC sites (OPF-1&2, OPF-3, RDG, SRB, and HSB). The total abandonment encompassed 489.06 linear feet. The wells abandoned were constructed

of PVC with diameters ranging from 1-inch to 2-inches. The shallowest well abandoned was measured to be 11.6 ft bls (OPF) and the deepest well abandoned was documented to be 51.45 feet bls (HSB). All aboveground completions were removed and each area was re-graded and/or grouted to surface to match existing surroundings. All materials (concrete pads, well casings, etc.) were disposed of accordingly.

If you have any questions or need additional information, please feel free to contact us.

Sincerely,



Deda Johansen
Program Manager



Harlan Faircloth, P.E.
Principal Engineer

cc: John Armstrong, FDEP

Table 1
Well Abandonment Summary

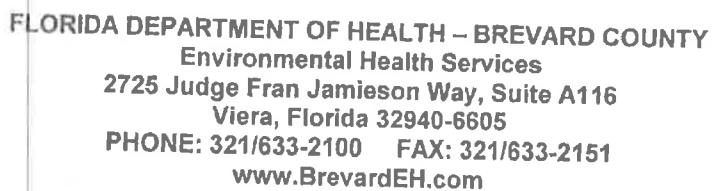
SITE	WELL ID. #	Depth (feet)	Diameter (inches)	COMMENTS
ABANDONED WELLS				
RDG	MW0001 (IW-1S)	15	2	abandoned
RDG	MW0002 (IW2S)	15	2	abandoned
RDG	MW0003 (IW-3S)	15	2	abandoned
SRB	K6446-IW-1S	12.8		abandoned
OPF-3	IW-1S	15.25	2	abandoned
OPF-3	IW-01D	46.9	2	abandoned
OPF-3	iw-02D	46.8	2	abandoned
HSB	MW-4I	51.45	2	abandoned
HSB	PZ-01	15	1	abandoned
HSB	PZ-02	15	1	abandoned
OPF	PZ-2S	14.5	2	abandoned
OPF	IW-1S	11.9	2	abandoned
OPF	IW-1I	29.2	2	abandoned
OPF	IW-2S	10.82	2	abandoned
OPF	IW-2I	28.91	2	abandoned
OPF	IW-3S	11.7	2	abandoned
OPF	IW-3I	28.9	2	abandoned
OPF	IW-4S	12.3	2	abandoned
OPF	IW-5S	11.6	2	abandoned
OPF	IW-5I	28.92	2	abandoned
OPF	IW-6S	10.91	2	abandoned
OPF	IW-7S	11.6	2	abandoned
OPF	IW-7I	29.6	2	abandoned
total		489.06		
WELLS NOT FOUND / NOT ABANDONED				
SRSA	IW-1S	12		Could not locate any wells on this facility. To much metal debris for metal detector, also big piles of debris located where GPS indicates wells are located. Wells could exist but covered and not identifiable or accessable due to debris
SRSA	IW-2S	12		
SRSA	IW-3S	12		
SRSA	IW-4S	12		

Table 1
Well Abandonment Summary

OPF	PZ-1S	12	2	Could not locate these "PZ" wells. Assuming they were installed without protective covers, the 1-inch stickups may not have survived years of mowing
OPF	PZ-3S	12	2	
OPF	PZ-4s	12	2	
OPF	PZ-5S	12	2	
OPF	IW-4I	30	2	
				Was not located. Was not paired with IW-4S
OHG	IW-1S	15	2	Appears this site has been remediated and resodded. Could not locate well with metal detector
OHG	Existing well	42	4	Well found however was filled with grout/previously abandoned. Casing remains, plan to remove during next round of abandonment
HSB	MW-1S	15.5	2	This Facility has been demolished. These wells could not be located. They were likely removed during demolition
HSB	MW-3I	32	2	
HSB	MW-3S	17	2	
HSB	MW-4S	18.5	2	
HSB	MW-5S	20.5	2	
HSB	MW-6S	20.5	2	
CRSA	IW-1S	12		Opened well and well cap states "20I". Depth to bottom measurement of this well is 49.42 ft, and hence not IW-1S, which should be a 12 ft well. This well is in location where IW-1S should be.
CRSA	IW-3M	50	2	well was previously abandoned. Completion still exists, plan to remove during next round of abandonment
CRSA	IW-6S	12		well was previously abandoned. Completion still exists, plan to remove during next round of abandonment
CRSA	IW-9S	12		Depth to bottom measurement of this well is 49 ft, and hence not IW-9S, which should be a 12 ft well. This well is in location where IW-9S should be.
CRSA	IW-2S	12		Could not locate these wells with GPS coordinates, metal detector, or shovel. IW-4S could have possibly been removed or destroyed when RR track spur was removed, all others just could not find, found many other metal parts during recon of site
CRSA	IW-3S	12		
CRSA	IW-4S	12		
CRSA	IW-5S	12		
CRSA	IW-7S	12		
CRSA	IW-8S	12		
CRSA	IW-10s	12		

APPENDIX A

Abandonment Permits, Figures, and Field Notes



DISPLAY IN A CONSPICUOUS PLACE – THIS PERMIT IS NON-TRANSFERABLE



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT,
REPAIR, MODIFY, OR ABANDON A WELL

☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☒ Delegated Authority (If Applicable) Brevard - FLDOH

PAID
JAN 13 2016
The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No. 42946
Florida Unique ID _____
Permit Stipulations Required (See Attached)
62-524 Quad No _____ Delineation No. _____
CUP/WUP Application No. _____
ABOVE THIS LINE - FOR OFFICIAL USE ONLY

1. NASA John F. Kennedy Space Center
Owner, Legal Name if Corporation
Address Kennedy Space Center FL City Kennedy Space Center FL State FL ZIP 32789 Telephone Number
2. Orbiter Processing Facility 16-6462
Well Location - Address, Road Name or Number, City
3. 22-36-22-00-00-00
Parcel ID No. (PIN) or Alternate Key (Circle One)
4. 22 Section or Land Grant 22 Township 36 Range 00 Lot 00 Block 00 Unit
5. Raymond Robinson Water Well Contractor License Number 2633 Subdivision 407-467-7857 Telephone Number robinson@core-eucon.com E-mail Address
6. 1020 Railroad Ave Water Well Contractor's Address City Winter Park State FL ZIP 32789
7. Type of Work: ☒ Construction ☐ Repair ☐ Modification ☒ Abandonment No Longer Needed
8. Number of Proposed Wells 6
9. Specify Intended Use(s) of Well(s):
☐ Domestic ☐ Landscape Irrigation ☐ Agricultural Irrigation ☐ Site Investigation
☐ Bottled Water Supply ☐ Recreation Area Irrigation ☐ Livestock ☒ Monitoring
☐ Public Water Supply (Limited Use/DOH) ☐ Nursery Irrigation ☐ Test
☐ Public Water Supply (Community or Non-Community/DEP) ☐ Commercial/Industrial ☐ Earth-Coupled Geothermal
☐ Class I Injection ☐ Golf Course Irrigation ☐ HVAC Supply
☐ Class V Injection ☐ Recharge ☐ Commercial/Industrial Disposal ☐ Aquifer Storage and Recovery ☐ HVAC Return
Remediation: ☐ Recovery ☐ Air Sparge ☐ Other (Describe) _____
10. Distance from Septic System if ≤ 200 ft uk (Note: Not all types of wells are permitted by a given permitting authority)
11. Facility Description Orbiter Processing Facility
12. Estimated Start Date 1-25-16
13. Estimated Well Depth 30 ft Estimated Casing Depth 25 ft Primary Casing Diameter 2 in. Open Hole: From _____ To _____ ft
14. Estimated Screen Interval: From 25 To 30 ft
15. Primary Casing Material: ☐ Black Steel ☐ Galvanized ☒ PVC ☐ Stainless Steel
☐ Not Cased ☐ Other _____
16. Secondary Casing _____ Telescope Casing _____ Liner _____ Surface Casing Diameter _____ in.
17. Secondary Casing Material: ☐ Black Steel ☐ Galvanized ☐ PVC ☐ Stainless Steel ☐ Other _____
18. Method of Construction, Repair, or Abandonment: ☐ Auger ☐ Cable Tool ☐ Jetted ☐ Rotary ☐ Sonic
☐ Combination (Two or More Methods) ☐ Hand Driven (Well Point, Sand Point) ☐ Hydraulic Point (Direct Push)
☒ Horizontal Drilling ☒ Plugged by Approved Method ☐ Other (Describe) Minnie Groud
19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
From 0 To 30 Seal Material ☒ Bentonite ☐ Neat Cement ☐ Other _____
From _____ To _____ Seal Material ☐ Bentonite ☐ Neat Cement ☐ Other _____
From _____ To _____ Seal Material ☐ Bentonite ☐ Neat Cement ☐ Other _____
From _____ To _____ Seal Material ☐ Bentonite ☐ Neat Cement ☐ Other _____
20. Indicate total number of existing wells on site uk List number of existing unused wells on site uk
21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? Yes ☐ No ☒ If yes, complete the following: CUP/WUP No. _____ District Well ID No. _____
22. Latitude See Attached List Longitude _____
23. Data Obtained From: ☒ GPS ☐ Map ☐ Survey
Signature of Contractor Raymond Robinson License No. 2633 Signature of Owner or Agent Raymond Robinson Date 1-18-16
Approval Granted By file Love Issue Date 1/21/16 Expiration Date 1/21/17 Hydrologist Approval _____
Fee Received \$ 16.35 Receipt No. YISA 072 366 Check No. _____
THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.
DEP Form 62-532.900(1) Incorporated in 62-532.400(1) F.A.C. Effective Date October 7, 2010



Permit No. 42966

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SFWFMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

Comments:

* Abandon per Ch 40C-3 + 62-532.
- Submit completion reports within 30 days
of completion.

General Site Map of Proposed Well Location

SEE Attached site map
+ GPS Coordinates



Issuance of this permit does
not relieve the well owner of
meeting the permit requirements
of county, municipal, or other
legally constituted authorities.



STATE OF FLORIDA WELL COMPLETION REPORT

Date Stamp

- ☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☒ Delegated Authority (If Applicable)

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(* Denotes Required Fields Where Applicable)

Brevard County

Official Use Only

1. Permit Number <u>42966</u>		CUP/WUP Number _____		DID Number _____		62-524 Delineation No. _____																					
2. Number of permitted wells constructed, repaired, or abandoned <u>6</u>		Number of permitted wells not constructed, repaired, or abandoned <u>0</u>																									
3. Owner's Name <u>NASA John F Kennedy Space Center</u>		Completion Date <u>3-9-16</u>		5. Florida Unique ID _____																							
6. <u>Orbiter Processing Facility</u> <u>NASA Kennedy Space Center FL</u> Well Location - Address, Road Name or Number, City, ZIP																											
7. County <u>Brevard</u>		Section _____		Land Grant _____		Township _____ Range _____																					
8. Latitude _____		Longitude _____																									
9. Data Obtained From: <input checked="" type="checkbox"/> GPS <input type="checkbox"/> Map <input type="checkbox"/> Survey Datum: <u>NAD 27</u> <input checked="" type="checkbox"/> NAD 83 <input type="checkbox"/> WGS 84																											
10. Type of Work: <input type="checkbox"/> Construction <input type="checkbox"/> Repair <input type="checkbox"/> Modification <input checked="" type="checkbox"/> Abandonment																											
11. Specify Intended Use(s) of Well(s): <table border="0"><tr><td><input type="checkbox"/> Domestic</td><td><input type="checkbox"/> Landscape Irrigation</td><td><input type="checkbox"/> Agricultural Irrigation</td><td><input type="checkbox"/> Site Investigation</td></tr><tr><td><input type="checkbox"/> Bottled Water Supply</td><td><input type="checkbox"/> Recreation Area Irrigation</td><td><input type="checkbox"/> Livestock</td><td><input checked="" type="checkbox"/> Monitoring</td></tr><tr><td><input type="checkbox"/> Public Water Supply (Limited Use/DOH)</td><td><input type="checkbox"/> Nursery Irrigation</td><td><input type="checkbox"/> Test</td><td><input type="checkbox"/> Earth-Coupled Geothermal</td></tr><tr><td><input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP)</td><td><input type="checkbox"/> Commercial/Industrial</td><td><input type="checkbox"/> HVAC Supply</td><td><input type="checkbox"/> HVAC Return</td></tr><tr><td><input type="checkbox"/> Class I Injection</td><td><input type="checkbox"/> Golf Course Irrigation</td><td></td><td></td></tr></table> Class V Injection: <input type="checkbox"/> Recharge <input type="checkbox"/> Commercial/Industrial Disposal <input type="checkbox"/> Aquifer Storage and Recovery <input type="checkbox"/> Drainage Remediation: <input type="checkbox"/> Recovery <input type="checkbox"/> Air Sparge <input type="checkbox"/> Other (Describe) _____ <input type="checkbox"/> Other (Describe) _____								<input type="checkbox"/> Domestic	<input type="checkbox"/> Landscape Irrigation	<input type="checkbox"/> Agricultural Irrigation	<input type="checkbox"/> Site Investigation	<input type="checkbox"/> Bottled Water Supply	<input type="checkbox"/> Recreation Area Irrigation	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Public Water Supply (Limited Use/DOH)	<input type="checkbox"/> Nursery Irrigation	<input type="checkbox"/> Test	<input type="checkbox"/> Earth-Coupled Geothermal	<input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP)	<input type="checkbox"/> Commercial/Industrial	<input type="checkbox"/> HVAC Supply	<input type="checkbox"/> HVAC Return	<input type="checkbox"/> Class I Injection	<input type="checkbox"/> Golf Course Irrigation		
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<input type="checkbox"/> Class I Injection	<input type="checkbox"/> Golf Course Irrigation																										
12. Drill Method: <input type="checkbox"/> Auger <input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary <input type="checkbox"/> Combination (Two or More Methods) <input checked="" type="checkbox"/> Other <u>Trimmer Grout</u> <input type="checkbox"/> Horizontal Drilling <input type="checkbox"/> Hydraulic Point (Direct Push) <input type="checkbox"/> Jetted <input type="checkbox"/> Sonic																											
13. Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM																											
14. Measuring Point (Describe) _____ Which is _____ ft. Above _____ Below Land Surface Flowing: <input type="checkbox"/> Yes <input type="checkbox"/> No																											
15. Casing Material: <input type="checkbox"/> Black Steel <input type="checkbox"/> Galvanized <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Not Cased <input type="checkbox"/> Other _____																											
16. Total Well Depth <u>29.5</u> ft. Cased Depth <u>24.5</u> ft. Open Hole: From _____ To _____ ft. Screen: From <u>24.5</u> To <u>28.5</u> ft. Slot Size: <u>10/10</u>																											
17. Abandonment: Other (Explain) _____ <table border="0"><tr><td>From <u>0</u> ft. To <u>29.5</u> ft.</td><td>No. of Bags <u>2</u></td><td>Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>								From <u>0</u> ft. To <u>29.5</u> ft.	No. of Bags <u>2</u>	Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____					
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From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
18. Surface Casing Diameter and Depth: <table border="0"><tr><td>Dia <u>2</u> in. From <u>0</u> ft. To <u>24.5</u> ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>								Dia <u>2</u> in. From <u>0</u> ft. To <u>24.5</u> ft.	No. of Bags _____	Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____														
Dia <u>2</u> in. From <u>0</u> ft. To <u>24.5</u> ft.	No. of Bags _____	Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
19. Primary Casing Diameter and Depth: <table border="0"><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>								Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____					
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Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
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Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
20. Liner Casing Diameter and Depth: <table border="0"><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>								Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____											
Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
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Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
21. Telescope Casing Diameter and Depth: <table border="0"><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>								Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____											
Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																									
22. Pump Type (If Known): <u>N/A</u> <input type="checkbox"/> Centrifugal <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Turbine Horsepower _____ Pump Capacity (GPM) _____ Pump Depth _____ ft. Intake Depth _____ ft.																											
23. Chemical Analysis (When Required): Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Laboratory Test _____ Field Test Kit _____																											
24. Water Well Contractor: Contractor Name <u>Raymond Robinson</u> License Number <u>2633</u> E-mail Address <u>rrobinson@core-eval.com</u> Contractor's Signature <u>[Signature]</u> Driller's Name (Print or Type) <u>Richard Allen</u>																											

*Permit No.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

[illegible]

Comments:

Detailed Site Map of Well Location

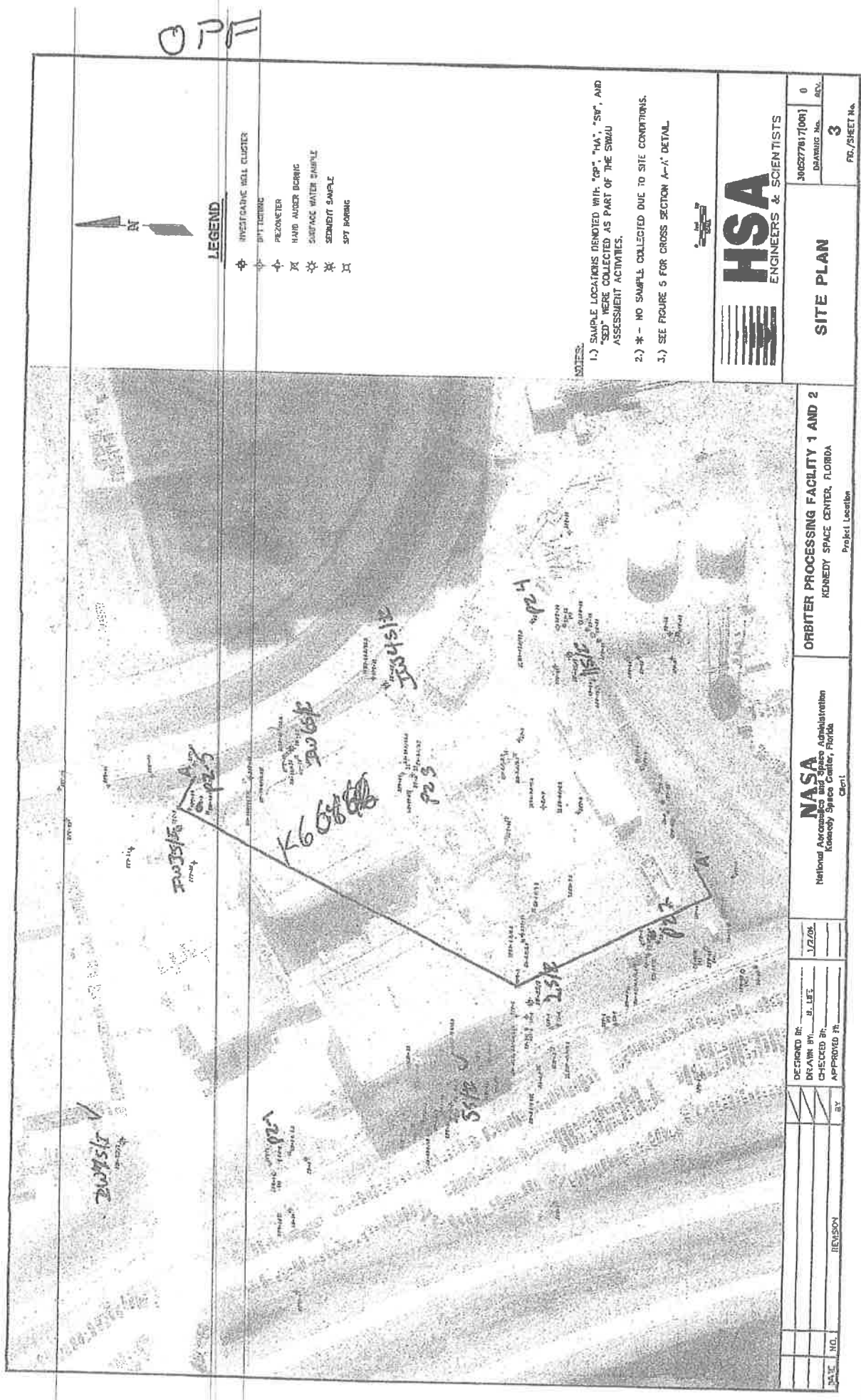
SEE

Wells Abandoned on This Perm

Attached
site map
& GPS Coordinates

OPF - Iw07I	29.60'
OPF - Iw05I	28.92
OPF - Iw03I	28.90'
OPF - Iw01I	29.20
OPF - Iw02I	28.91
OPF - PZ02	14.50

OPF 65445 only as ID



LEGEND

- INVESTIGATIVE WELL CLUSTER
- PIEZOMETER
- HAND AUGER BORING
- SURFACE WATER SAMPLE
- SEDIMENT SAMPLE
- SPOT BORING

NOTES:

- 1.) SAMPLE LOCATIONS DENOTED WITH "OP", "HA", "SW", AND "SD" WERE COLLECTED AS PART OF THE SWAU ASSESSMENT ACTIVITIES.
- 2.) * - NO SAMPLE COLLECTED DUE TO SITE CONDITIONS.
- 3.) SEE FIGURE 5 FOR CROSS SECTION A-A' DETAIL.



ENGINEERS & SCIENTISTS

SITE PLAN

DATE	NO.	BY	REVISION

ORBITER PROCESSING FACILITY 1 AND 2
KENNEDY SPACE CENTER, FLORIDA
Project Location

NASA
National Aeronautics and Space Administration
Kennedy Space Center, Florida
C-101

DESIGNED BY:	1/2/06
CHECKED BY:	
APPROVED BY:	

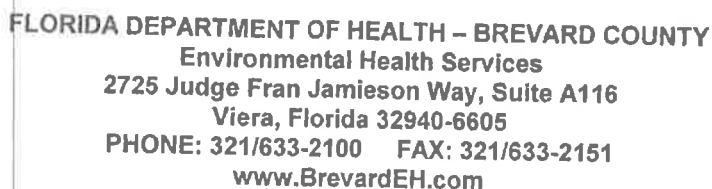
OPF

KSC-TA-6482

ID	EASTING	NORTHING
DPT-01	233617.3382	471205.3562
DPT-02	233673.6729	471203.0337
DPT-03	233694.8868	471140.7627
DPT-04	233660.3977	471099.5553
DPT-05	233740.0920	471107.9485
DPT-06	233715.5078	471044.0142
DPT-07	233791.3696	471028.3833
DPT-08	233819.8294	471092.9614
DPT-09	233879.6145	471056.5159
DPT-10	233877.5444	471099.2596
DPT-11	233926.9589	471097.9198
DPT-12	233870.9632	471174.9909
DPT-13	233835.6612	471209.8901
DPT-14	233820.5066	471250.7377
DPT-15	233762.6104	471108.4512
DPT-16	233809.8354	471126.0981
DPT-17	233832.1991	471160.3805
DPT-18	233834.1276	471221.9710
DPT-19	233833.5913	471242.8020
DPT-20	233826.4870	471266.4066
DPT-21	233822.2616	471282.9515
DPT-22	233818.9088	471300.0291
DPT-23	233803.1019	471298.8733
DPT-24	233794.9902	471268.9399
DPT-25	233792.1762	471243.4332
DPT-26	233694.4035	471141.6782
HB-02	233705.2135	471106.1525
HB-03	233711.0976	471094.6542
HB-04	233744.2868	471066.7802
HB-05	233749.9684	471053.5889
HB-06	233758.8903	471114.2299
HB-07	233781.4492	471088.6597
HB-07A	233782.9532	471094.5515
HB-08	233820.8157	471103.4680
HB-09	233842.0751	471117.6148
HB-09A	233835.9477	471120.1563
HB-10	233828.4653	471159.4181
HB-11	233835.9915	471157.3519
HB-12	233837.4753	471211.2163
HB-13	233828.9082	471219.1982
HB-14	233808.6158	471236.9305
HB-15	233716.9866	471139.4183
HB-16	233871.9458	471176.0529
HB-17	233876.2079	471114.4697
HB-18	233821.4141	471224.2741
HB-19	233830.3146	471217.4735
HB-20	233710.7424	471157.2882
IW-1	233878.0896	471093.7691
IW-1I	233877.5988	471094.0910
IW-1S	233878.4965	471093.3566
IW-2	233738.0128	471111.8629

IW-2I	233737.5067	471112.5209
IW-2S	233738.1806	471111.2063
IW-3	233803.0163	471250.0749
IW-3I	233802.6077	471249.8003
IW-3S	233803.4854	471250.3233
IW-4	233867.8388	471169.6870
IW-4I	233867.7104	471169.3923
IW-4S	233867.7266	471169.9912
IW-5	233694.7141	471141.2685
IW-5I	233694.1078	471142.0891
IW-6S	233834.8716	471218.6880
IW-7I	233675.8193	471275.4426
IW-7S	233676.5285	471274.3637
PZ-01	233673.1448	471202.1013
PZ-02	233763.9755	471064.0307
PZ-03	233832.0064	471158.4779
PZ-04	233891.3709	471108.7187
PZ-05	233820.9441	471249.1057
SD-01	233673.8618	471198.3958
SD-02	233684.2545	471152.4163
SD-03	233710.1139	471129.8162
SD-04	233701.9476	471119.7617
SD-05	233729.7051	471097.5125
SD-06	233726.8220	471076.4306
SD-07	233754.5905	471052.4513
SD-08	233820.5745	471053.9197
SD-09	233838.8993	471064.0818
SD-10	233864.9045	471082.7149
SD-11	233881.0246	471063.5007
SD-14	233653.0225	471205.6883
SD-16	233750.0994	471020.7621
SD-17	233774.1204	471027.9291
SD-18	233888.2403	471050.3089
SFW-02	233682.5459	471155.8099
SFW-03	233707.2642	471133.3259
SFW-04	233702.9943	471118.4956
SFW-05	233729.3160	471097.8337
SFW-06	233726.1919	471077.6643
SFW-08	233819.9036	471053.4590
SFW-09	233838.2785	471063.7288
SFW-10	233664.0035	471082.1262
SFW-11	233881.0343	471064.0714
SFW-12	233894.4838	471089.6527
SFW-13	233890.7308	471100.5195
SFW-14	233645.2035	471223.5167
SFW-17	233774.7645	471028.6154
SFW-18	233887.2947	471050.7009
SPT-01	233778.7703	471042.1782
SPT-02	233820.0947	471251.8272
SPT-03	233748.1883	471110.6363

State Plane, NAD 83, Florida East (in meters)



Permit Number: 42967
Purpose: ABANDONMENT
Subdivision/Lot#: K6-6462 (7 WELLS)
Well Site Address: ORBITER PROCESSING
FACILITY
KENNEDY SPACE CENTER

Well Contractor: Raymond Robinson

WWC #: 2633

WWC Phone #: 407-467-7857

Owner Name: UNITED STATES GOVERNMENT

Owner Address: P O BOX 366

TITUSVILLE

FL

32781-

Owner Phone #:

Issuance of this permit does not relieve the well owner of meeting the permit requirements of county, municipal, or other legally constituted authorities. The well contractor must meet the well set-back per Chapter 62-532, F.A.C., Table 1. Any variance from these setbacks or change to site plan must be approved in advance by Environmental Health Services.

Circle One: OSTDS or Sewer

Foundation Setback: _____

Site Plan

☐ OSTDS Site Setback _____

Variance Application Date / /

Well ID Tag

OSTDS AP Setback

☐ Variance Approval Date / /

 Casing Height _____ "

OSTDS/Well - Final ____ / ____ / ____

☐ Warning Notice Sent _____ / _____ / _____

Grout Depth _____"

Bacteriological Result _____ / _____ / _____

☐ Compliance Letter Sent ____ / ____ / ____

☐ Completion Report

Nitrate Result / /

☐ Other: _____

Notes:	
--------	--

	Original Site Visit	Construction Date	Re-inspection Date	Final Date
Date				
Initials				

THIS PERMIT IS ISSUED BY THE AUTHORIZED REPRESENTATIVE OF THE FLORIDA DEPARTMENT OF HEALTH UNDER THE AUTHORITY OF CHAPTER 381, 402, 403, 513, 514, AND 489 PART III, FLORIDA STATUTES; FLORIDA ADMINISTRATIVE CODE AND BREVARD COUNTY CODE SECTION 46-36 THRU 46-72 ARTICLE II, ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS AND WATER WELL PERMITTING. THIS PERMIT IS SUBJECT TO SUSPENSION OR REVOCATION WHEN IT IS DETERMINED BY THE DEPARTMENT THAT THE OPERATION, CONDITIONS AND/OR DEPARTMENT STANDARDS ARE NOT BEING MET.

DISPLAY IN A CONSPICUOUS PLACE - THIS PERMIT IS NON-TRANSFERABLE



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT,
REPAIR, MODIFY, OR ABANDON A WELL

- ☐ Southwest
☐ Northwest
☒ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☒ Delegated Authority (If Applicable) Brevard - FLDOH

PAID
JAN 19 2016

PLEASE FILL OUT ALL APPLICABLE FIELDS
(Depends Required Fields Where Applicable)

The water well contractor is responsible for completing
this form and forwarding the permit application to the
appropriate delegated authority where applicable

Permit No. 42967
Florida Unique ID
Permit Stipulations Required (See Attached)
62-524 Quad No. _____ Delinication No. _____
CUP/WUP Application No. _____
ABOVE THIS LINE - FOR OFFICIAL USE ONLY

1. NASA John F. Kennedy Space Center Kennedy Space Center FL
Owner, Legal Name of Corporation Address City State ZIP Telephone Number
2. Orbiter Processing Facility 142 142 146-6462 Kennedy Space Center FL
Well Location - Address, Road Name or Number, City State ZIP Telephone Number
3. 22-36-22-00-00-00
Parcel ID No. (PIN) or Alternate Key (Circle One)
4. 22 22 36 00 00 00
Section or Land Grant Township Range Lot Block Unit
5. Raymond Robinson 2633 407-467-7857
Water Well Contractor License Number Telephone Number
6. 1020 Railroad Ave Winter Park FL 32789
Water Well Contractor Address City State ZIP
E-mail Address robinson@core-exen.com
7. Type of Work: ☐ Construction ☐ Repair ☐ Modification ☒ Abandonment ☒ No Longer Needed
8. Number of Proposed Wells 7
9. Specify Intended Use(s) of Well(s):
☐ Domestic ☐ Landscape Irrigation ☐ Agricultural Irrigation ☐ Site Investigation
☐ Bottled Water Supply ☐ Recreation Area Irrigation ☐ Livestock ☐ Monitoring
☐ Public Water Supply (Limited Use/DOH) ☐ Nursery Irrigation ☐ Test
☐ Public Water Supply (Community or Non-Community/DEP) ☐ Commercial/Industrial ☐ Earth-Coupled Geothermal
☐ Class I Injection ☐ Golf Course Irrigation ☐ HVAC Supply
☐ Class V Injection: ☐ Recharge ☐ Commercial/Industrial Disposal ☐ Aquifer Storage and Recovery ☐ HVAC Return
☐ Remediation ☐ Recovery ☐ Air Sparge ☐ Other (Describe) _____
10. Distance from Seplin System if ≤ 200 ft. u.k.
11. Facility Description Orbiter Processing Facility
12. Estimated Start Date 1-25-16
13. Estimated Well Depth 15 ft. Estimated Casing Depth 5 ft. Primary Casing Diameter 2 in. Open Hole: From _____ To _____ ft.
14. Estimated Screen Interval: From 5 To 15 ft.
15. Primary Casing Material: ☐ Black Steel ☐ Galvanized ☒ PVC ☐ Stainless Steel
☐ Not Cased ☐ Other
16. Secondary Casing: ☐ Telescope Casing ☐ Liner ☐ Surface Casing Diameter _____ in.
17. Secondary Casing Material: ☐ Black Steel ☐ Galvanized ☐ PVC ☐ Stainless Steel ☐ Other
18. Method of Construction, Repair, or Abandonment: ☐ Auger ☐ Cable Tool ☐ Jetted ☐ Rotary ☐ Sonic
☐ Combination (Two or More Methods) ☐ Hand Driven (Well Point, Sand Point) ☐ Hydraulic Point (Direct Push)
☐ Horizontal Drilling ☒ Plugged by Approved Method ☐ Other (Describe) Trimmed Grout
19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing
From _____ To _____ Seal Material ☐ Bentonite ☒ Neat Cement ☐ Other
From _____ To _____ Seal Material ☐ Bentonite ☐ Neat Cement ☐ Other
From _____ To _____ Seal Material ☐ Bentonite ☐ Neat Cement ☐ Other
From _____ To _____ Seal Material ☐ Bentonite ☐ Neat Cement ☐ Other
20. Indicate total number of existing wells on site _____ List number of existing unused wells on site _____
21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ☐ Yes ☒ No If yes, complete the following: CUP/WUP No. _____ District Well ID No. _____
22. Latitude See Attached List Longitude _____
23. Data Obtained From: ☒ GPS ☐ Map ☐ Survey
Datum: ☒ NAD 27 ☐ NAD 83 ☐ WGS 84
Signature of Contractor Raymond Robinson License No. 2633 Signature of Owner or Agent Raymond Robinson Date 1-18-16
Approval Granted By Jill Love Issue Date 1/21/16 Expiration Date 1/21/17 Hydrologist Approval: _____
Fee Received \$ 135 Receipt No. VISA 077364 Check No. _____
THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY THE
PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.
DEP Form 62-532.900(1) Incorporated in 62-532.400(1) F.A.C. Effective Date: October 7, 2010

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
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PHONE: (386) 329-4500
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NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NFWFMD.STATE.FL.US

Permit No.

42967

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

Comments:

- Abandon per CH40C-3 + 62-532
- submit completion report within 30 days
of completion.

*General Site Map of Proposed Well Location

SEE Attached site map
& GPS Coordinates



Issuance of this permit does
not relieve the well owner of
meeting the permit requirements
of county, municipal, or other
legally constituted authorities.

OPF



STATE OF FLORIDA WELL COMPLETION REPORT

- ☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☒ Delegated Authority (If Applicable)

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(* Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

1. Permit Number <u>42967</u>		CUP/WUP Number _____	DID Number _____	62-524 Delineation No. _____																								
2. Number of permitted wells constructed, repaired, or abandoned <u>7</u>		Number of permitted wells not constructed, repaired, or abandoned <u>0</u>																										
3. Owner's Name <u>NASA John F Kennedy Space Center</u>		Completion Date <u>3-9-16</u>																										
4. Well Location - Address, Road Name or Number, City, ZIP <u>Orbitor Processing Facility NASA Kennedy Space Center FL</u>		5. Florida Unique ID _____																										
7. County <u>Brevard</u>		Section _____	Land Grant _____	Township _____ Range _____																								
8. Latitude _____		Longitude _____																										
9. Data Obtained From: <input checked="" type="checkbox"/> GPS <input type="checkbox"/> Map <input type="checkbox"/> Survey		Datum: <u>NAD 27</u> <input checked="" type="checkbox"/> <u>NAD 83</u> <input type="checkbox"/> WGS 84																										
10. Type of Work: <input type="checkbox"/> Construction <input type="checkbox"/> Repair <input type="checkbox"/> Modification <input checked="" type="checkbox"/> Abandonment																												
11. Specify Intended Use(s) of Well(s): <table border="0"><tr><td><input type="checkbox"/> Domestic</td><td><input type="checkbox"/> Landscape Irrigation</td><td><input type="checkbox"/> Agricultural Irrigation</td><td><input type="checkbox"/> Site Investigation</td></tr><tr><td><input type="checkbox"/> Bottled Water Supply</td><td><input type="checkbox"/> Recreation Area Irrigation</td><td><input type="checkbox"/> Livestock</td><td><input checked="" type="checkbox"/> Monitoring</td></tr><tr><td><input type="checkbox"/> Public Water Supply (Limited Use/DOH)</td><td></td><td><input type="checkbox"/> Nursery Irrigation</td><td><input type="checkbox"/> Test</td></tr><tr><td><input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP)</td><td></td><td><input type="checkbox"/> Commercial/Industrial</td><td><input type="checkbox"/> Earth-Coupled Geothermal</td></tr><tr><td><input type="checkbox"/> Class I Injection</td><td></td><td><input type="checkbox"/> Golf Course Irrigation</td><td><input type="checkbox"/> HVAC Supply</td></tr><tr><td></td><td></td><td></td><td><input type="checkbox"/> HVAC Return</td></tr></table> Class V Injection: <input type="checkbox"/> Recharge <input type="checkbox"/> Commercial/Industrial Disposal <input type="checkbox"/> Aquifer Storage and Recovery <input type="checkbox"/> Drainage Remediation: <input type="checkbox"/> Recovery <input type="checkbox"/> Air Sparge <input type="checkbox"/> Other (Describe) _____					<input type="checkbox"/> Domestic	<input type="checkbox"/> Landscape Irrigation	<input type="checkbox"/> Agricultural Irrigation	<input type="checkbox"/> Site Investigation	<input type="checkbox"/> Bottled Water Supply	<input type="checkbox"/> Recreation Area Irrigation	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Public Water Supply (Limited Use/DOH)		<input type="checkbox"/> Nursery Irrigation	<input type="checkbox"/> Test	<input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP)		<input type="checkbox"/> Commercial/Industrial	<input type="checkbox"/> Earth-Coupled Geothermal	<input type="checkbox"/> Class I Injection		<input type="checkbox"/> Golf Course Irrigation	<input type="checkbox"/> HVAC Supply				<input type="checkbox"/> HVAC Return
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<input type="checkbox"/> Class I Injection		<input type="checkbox"/> Golf Course Irrigation	<input type="checkbox"/> HVAC Supply																									
			<input type="checkbox"/> HVAC Return																									
12. Drill Method: <input type="checkbox"/> Auger <input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary <input type="checkbox"/> Combination (Two or More Methods) <input checked="" type="checkbox"/> Other <u>Trimmer Grout</u> <input type="checkbox"/> Horizontal Drilling <input type="checkbox"/> Hydraulic Point (Direct Push) <input type="checkbox"/> Jetted <input type="checkbox"/> Sonic																												
13. Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM																												
14. Measuring Point (Describe) _____ Which is _____ ft. Above _____ Below Land Surface Flowing: <input type="checkbox"/> Yes <input type="checkbox"/> No																												
15. Casing Material: <input type="checkbox"/> Black Steel <input checked="" type="checkbox"/> Galvanized <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Not Cased <input type="checkbox"/> Other _____																												
16. Total Well Depth <u>12.5</u> ft. Cased Depth <u>2.5</u> ft. Open Hole: From _____ To _____ ft. Screen: From <u>2.5</u> To <u>12.5</u> ft. Slot Size <u>10/10</u>																												
17. Abandonment: Other (Explain) _____ <table border="0"><tr><td>From <u>0</u> ft. To <u>12.5</u> ft.</td><td>No. of Bags <u>1</u></td><td>Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>					From <u>0</u> ft. To <u>12.5</u> ft.	No. of Bags <u>1</u>	Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____									
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From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																										
18. Surface Casing Diameter and Depth: <table border="0"><tr><td>Dia <u>0</u> in. From <u>2.5</u> ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>					Dia <u>0</u> in. From <u>2.5</u> ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																		
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Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																										
19. Primary Casing Diameter and Depth: <table border="0"><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>					Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____									
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20. Liner Casing Diameter and Depth: <table border="0"><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>					Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____															
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Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																										
21. Telescope Casing Diameter and Depth: <table border="0"><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr><tr><td>Dia _____ in. From _____ ft. To _____ ft.</td><td>No. of Bags _____</td><td>Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____</td></tr></table>					Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____	Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____															
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Dia _____ in. From _____ ft. To _____ ft.	No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____																										
22. Pump Type (If Known): <u>N/A</u> <input type="checkbox"/> Centrifugal <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Turbine Horsepower _____ Pump Capacity (GPM) _____ Pump Depth _____ ft. Intake Depth _____ ft. 23. Chemical Analysis (When Required): Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Laboratory Test _____ Field Test Kit _____																												
24. Water Well Contractor: Contractor Name <u>Raymond Robinson</u> License Number <u>2633</u> E-mail Address <u>robinsu@core-excal.com</u> Contractor's Signature <u>[Signature]</u> Driller's Name (Print or Type) <u>Richard Allen</u>																												

'Permit No.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
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SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

[illegible]

Comments:

Detailed Site Map of Well Location

wells Abandoned on This permit

SEE
Attached
site map
and GPS
coordinates

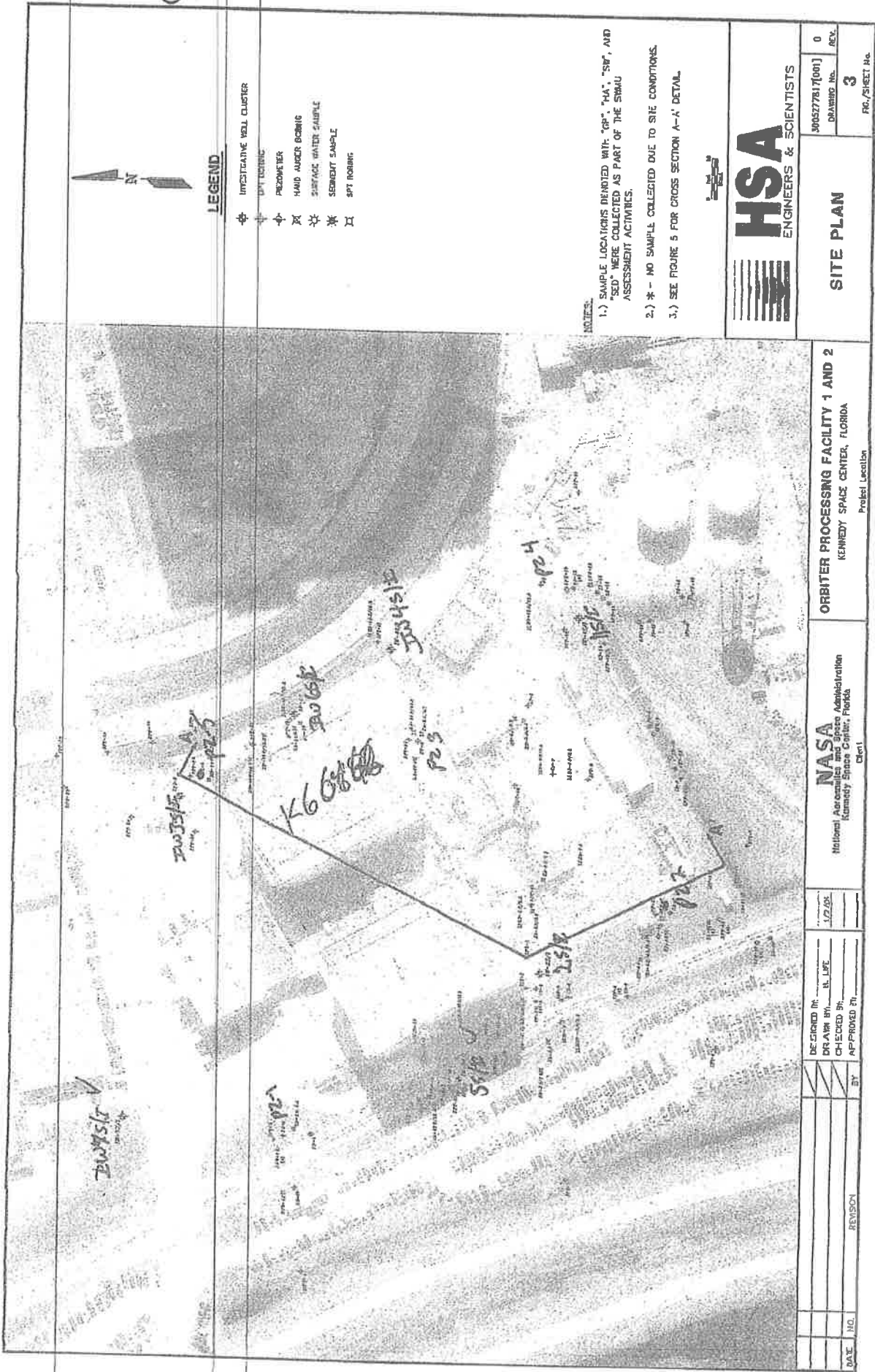
OPF - IW07S	11.60'
OPF - IW05S	11.60'
OPF - IW03S	11.70'
OPF - IW01S	11.90'
OPF - IW02S	10.82'
OPF - IW06S	10.91'
OPF - IW04S	12.30'



65445 only as I

OPF

OPF



OPF

KSC-TA-6462

ID	EASTING	NORTHING
DPT-01	233617.3382	471205.3562
DPT-02	233673.6729	471203.0337
DPT-03	233694.8868	471140.7627
DPT-04	233660.3977	471099.5553
DPT-05	233740.0920	471107.9485
DPT-06	233715.5078	471044.0142
DPT-07	233791.3696	471028.3833
DPT-08	233819.8294	471092.9614
DPT-09	233879.6145	471056.5159
DPT-10	233877.5444	471099.2596
DPT-11	233926.9589	471097.9198
DPT-12	233870.9632	471174.9909
DPT-13	233835.6612	471209.8901
DPT-14	233820.5066	471250.7377
DPT-15	233762.6104	471108.4512
DPT-16	233809.8354	471126.0981
DPT-17	233832.1991	471160.3805
DPT-18	233834.1276	471221.9710
DPT-19	233833.5913	471242.8020
DPT-20	233826.4870	471266.4066
DPT-21	233822.2616	471282.9515
DPT-22	233818.9088	471300.0291
DPT-23	233803.1019	471298.8733
DPT-24	233794.9902	471268.9399
DPT-25	233792.1762	471243.4332
DPT-26	233694.4035	471141.6782
HB-02	233705.2135	471106.1525
HB-03	233711.0976	471094.6542
HB-04	233744.2868	471066.7802
HB-05	233749.9684	471053.5889
HB-06	233758.8903	471114.2299
HB-07	233781.4492	471088.6597
HB-07A	233782.9532	471094.5515
HB-08	233820.8157	471103.4680
HB-09	233842.0751	471117.6148
HB-09A	233835.9477	471120.1563
HB-10	233828.4653	471159.4181
HB-11	233835.9915	471157.3519
HB-12	233837.4753	471211.2163
HB-13	233828.9082	471219.1982
HB-14	233808.6158	471236.9305
HB-15	233716.9866	471139.4183
HB-16	233871.9458	471176.0529
HB-17	233876.2079	471114.4697
HB-18	233821.4141	471224.2741
HB-19	233830.3146	471217.4735
HB-20	233710.7424	471157.2882
IW-1	233878.0896	471093.7691
IW-11	233877.5988	471094.0910
IW-1S	233878.4965	471093.3566
IW-2	233738.0128	471111.8629

IW-2I	233737.5067	471112.5209
IW-2S	233738.1806	471111.2063
IW-3	233803.0163	471250.0749
IW-3I	233802.6077	471249.8003
IW-3S	233803.4854	471250.3233
IW-4	233867.8388	471169.6870
IW-4I	233867.7104	471169.3923
IW-4S	233867.7266	471169.9912
IW-5S	233694.7141	471141.2685
IW-5I	233694.1078	471142.0891
IW-6S	233834.8716	471218.6880
IW-7I	233675.8193	471275.4426
IW-7S	233676.5285	471274.3637
PZ-01	233673.1448	471202.1013
PZ-02	233763.9755	471064.0307
PZ-03	233832.0064	471158.4779
PZ-04	233891.3709	471108.7187
PZ-05	233820.9441	471249.1057
SD-01	233673.8618	471198.3958
SD-02	233684.2545	471152.4163
SD-03	233710.1139	471129.8162
SD-04	233701.9476	471119.7617
SD-05	233729.7051	471097.5125
SD-06	233726.8220	471076.4306
SD-07	233754.5905	471052.4513
SD-08	233820.5745	471053.9197
SD-09	233838.8993	471064.0818
SD-10	233864.9045	471082.7149
SD-11	233881.0246	471063.5007
SD-14	233653.0225	471205.6883
SD-16	233750.0994	471020.7621
SD-17	233774.1204	471027.9291
SD-18	233888.2403	471050.3089
SFW-02	233682.5459	471155.8099
SFW-03	233707.2642	471133.3259
SFW-04	233702.9943	471118.4956
SFW-05	233729.3160	471097.8337
SFW-06	233726.1919	471077.6643
SFW-08	233819.9036	471053.4590
SFW-09	233838.2785	471063.7288
SFW-10	233864.0035	471082.1262
SFW-11	233881.0343	471064.0714
SFW-12	233894.4838	471089.6527
SFW-13	233890.7308	471100.5195
SFW-14	233645.2035	471223.5167
SFW-17	233774.7645	471028.6154
SFW-18	233887.2947	471050.7009
SPT-01	233778.7703	471042.1782
SPT-02	233820.0947	471251.8272
SPT-03	233748.1883	471110.6363

State Plane, NAD 83, Florida East (in meters)



FLORIDA DEPARTMENT OF HEALTH - BREVARD COUNTY
Environmental Health Services
2725 Judge Fran Jamieson Way, Suite A116
Viera, Florida 32940-6605
PHONE: 321/633-2100 FAX: 321/633-2151
www.BrevardEH.com

WELL CONSTRUCTION PERMIT

Permit Number: 42969
Purpose: ABANDONMENT
Subdivision/Lot#: FACILITY K6-0696 (3 WELLS)
Well Site Address: CRAWLER
KENNEDY SPACE CENTER

WAY
FL

Application Date: 1/20/2016
Expiration Date: 1/20/2017
Permit Fee: \$35.00

Well Contractor: Raymond Robinson

WWC #: 2633

WWC Phone #: 407-467-7857

Owner Name: UNITED STATES GOVERNMENT

Owner Address: P O BOX 366

TITUSVILLE

FL

32781-

Suite/Unit#:

Owner Phone #:

Issuance of this permit does not relieve the well owner of meeting the permit requirements of county, municipal, or other legally constituted authorities. The well contractor must meet the well set-back per Chapter 62-532, F.A.C., Table 1.
Any variance from these setbacks or change to site plan must be approved in advance by Environmental Health Services.

Inspection Details:

Circle One: OSTDS or Sewer

Foundation Setback: _____'

☐ Site Plan

☐ OSTDS Site Setback _____'

☐ Variance Application Date ____/____/____

☐ Well ID Tag

☐ OSTDS AP Setback _____'

☐ Variance Approval Date ____/____/____

☐ Casing Height _____"

☐ OSTDS/Well - Final ____/____/____

☐ Warning Notice Sent ____/____/____

☐ Grout Depth _____"

☐ Bacteriological Result ____/____/____

☐ Compliance Letter Sent ____/____/____

☐ Completion Report ____/____/____

☐ Nitrate Result ____/____/____

☐ Other: _____

Notes:

--	--	--	--

	Original Site Visit	Construction Date	Re-inspection Date	Final Date
Date				
Initials				

THIS PERMIT IS ISSUED BY THE AUTHORIZED REPRESENTATIVE OF THE FLORIDA DEPARTMENT OF HEALTH UNDER THE AUTHORITY OF CHAPTER 381, 402, 403, 513, 514, AND 489 PART III, FLORIDA STATUTES, FLORIDA ADMINISTRATIVE CODE AND BREVARD COUNTY CODE SECTION 46-36 THRU 46-72 ARTICLE II, ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS AND WATER WELL PERMITTING. THIS PERMIT IS SUBJECT TO SUSPENSION OR REVOCATION WHEN IT IS DETERMINED BY THE DEPARTMENT THAT THE OPERATION, CONDITIONS AND/OR DEPARTMENT STANDARDS ARE NOT BEING MET.

DISPLAY IN A CONSPICUOUS PLACE - THIS PERMIT IS NON-TRANSFERABLE



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

PAID
JAN 19 2016
PLEASE FILL OUT ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)
The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.
☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☒ Delegated Authority (If Applicable) **Brevard - FLDOH**

Permit No. 42969
Florida Unique ID _____
Permit Stipulations Required (See Attached) _____
62-524 Quad No _____ Delineation No. _____
CUPWUP Application No. _____
ABOVE THIS LINE - FOR OFFICIAL USE ONLY

1. **Owner, Legal Name of Corporation** NASA John F. Kennedy Space Center **Address** Kennedy Space Center FL **City** Kennedy Space Center FL **State** FL **ZIP** 32789 **Telephone Number** _____

2. **Facility** 166-0696 **Well Location - Address, Road Name or Number, City** Kennedy Space Center FL

3. **Parcel ID No. (PIN) or Alternate Key (Circle One)** 22-36-22-00-00-00

4. **Section or Land Grant** 22 **Township** 22 **Range** 36 **County** 2633 **Subdivision** 407-467-7857 **Check if 62-524** Yes No

5. **Water Well Contractor** Raymond Robinson **License Number** 2633 **Telephone Number** 407-467-7857 **E-mail Address** robinson@core-encom.com

6. **Water Well Contractor's Address** 1020 Railroad Ave **City** Winter Park **State** FL **ZIP** 32789

7. **Type of Work:** Construction Repair Modification Abandonment No Longer Needed

8. **Number of Proposed Wells** 3

9. **Specify Intended Use(s) of Well(s)**
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
Class V Injection Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation Recovery Air Sparge Other (Describe) _____
Other (Describe) _____

10. **Distance from Septic System if <200 ft.** u.k. 11. **Facility Description** Orbita Proximity File 12. **Estimated Start Date** 1-25-16

13. **Estimated Well Depth** 47 ft. **Estimated Casing Depth** 42 ft. **Primary Casing Diameter** 2 in. **Open Hole: From** _____ **To** _____ ft.

14. **Estimated Screen Interval: From** 42 **To** 47 ft.

15. **Primary Casing Material:** Black Steel Galvanized PVC Stainless Steel
Not Cased Other: _____

16. **Secondary Casing:** Telescope Casing Liner Surface Casing **Diameter** _____ in.

17. **Secondary Casing Material:** Black Steel Galvanized PVC Stainless Steel Other _____

18. **Method of Construction, Repair, or Abandonment:** Auger Cable Tool Jettied Rotary Sonic
Combination (Two or More Methods) Hand Driven (Well Point, Sand Point) Hydraulic Point (Direct Push)
Horizontal Drilling Plugged by Approved Method Other (Describe) Immune Grout

19. **Proposed Grouting Interval for the Primary, Secondary, and Additional Casing**
From 0 To 47 Seal Material Bentonite Neat Cement Other _____
From _____ To _____ Seal Material Bentonite Neat Cement Other _____
From _____ To _____ Seal Material Bentonite Neat Cement Other _____
From _____ To _____ Seal Material Bentonite Neat Cement Other _____

20. **Indicate total number of existing wells on site** 3 **List number of existing unused wells on site** _____

21. **Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application?** Yes No **If yes, complete the following:** CUP/WUP No. _____ District Well ID No. _____

22. **Records** 234061.271 **Records** 471478.854

23. **Data Obtained From** GPS Map Survey **Datum:** NAD 27 NAD 83 WGS 84

Signature of Contractor Raymond Robinson **License No.** 2633 **Signature of Owner or Agent** Raymond Robinson **Date** 1-15-16

Approval Granted By Jill Kove **Issue Date** 1/21/16 **Expiration Date** 1/21/17 **Hydrologist Approval** _____

Fee Received \$ 35 **Receipt No.** VISA 077364 **Check No.** _____

THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.

Permit No. 42969

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

Comments:

- Abandon per CH40C-3 + 62-532
- Submit completion report within
30 days of completion.

*General Site Map of Proposed Well Location

SEE Attached site map



Issuance of this permit does
not relieve the well owner of
meeting the permit requirements
of county, municipal, or other
legally constituted authorities.

OPF 3



STATE OF FLORIDA WELL COMPLETION REPORT

- ☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☒ Delegated Authority (If Applicable)

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(* Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

1. Permit Number 42969 CUP/WUP Number _____ DID Number _____ 62-524 Delineation No. _____

2. Number of permitted wells constructed, repaired, or abandoned 3 Number of permitted wells not constructed, repaired, or abandoned 0

3. Owner's Name NASA John F Kennedy Space Center Completion Date 3-9-16 5. Florida Unique ID _____

6. Facility 16-0696 Orbiter Processing Facility 3 NASA KSC FL
Well Location Address, Road Name or Number, City, ZIP

7. County Brevard Section _____ Land Grant _____ Township _____ Range _____

8. Latitude _____ Longitude _____

9. Data Obtained From: ☒ GPS ☐ Map ☐ Survey Datum: NAD 27 NAD 83 WGS 84

10. Type of Work: ☐ Construction ☐ Repair ☐ Modification ☒ Abandonment

11. Specify Intended Use(s) of Well(s):
☐ Domestic ☐ Landscape Irrigation ☐ Agricultural Irrigation ☐ Site Investigation
☐ Bottled Water Supply ☐ Recreation Area Irrigation ☐ Livestock ☒ Monitoring
☐ Public Water Supply (Limited Use/DOH) ☐ Nursery Irrigation ☐ Test
☐ Public Water Supply (Community or Non-Community/DEP) ☐ Commercial/Industrial ☐ Earth-Coupled Geothermal
☐ Class I Injection ☐ Golf Course Irrigation ☐ HVAC Supply
Class V Injection: ☐ Recharge ☐ Commercial/Industrial Disposal ☐ Aquifer Storage and Recovery ☐ Drainage
Remediation: ☐ Recovery ☐ Air Sparge ☐ Other (Describe) _____
☐ Other (Describe) _____

12. Drill Method: ☐ Auger ☐ Cable Tool ☐ Rotary ☐ Combination (Two or More Methods) ☒ Jetted ☐ Sonic
☐ Horizontal Drilling ☐ Hydraulic Point (Direct Push) ☒ Other Trimmed Grout

13. Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM

14. Measuring Point (Describe) _____ Which is _____ ft. Above _____ Below Land Surface Flowing: ☐ Yes ☐ No

15. Casing Material: ☐ Black Steel ☐ Galvanized ☒ PVC ☐ Stainless Steel ☐ Not Cased ☐ Other _____

16. Total Well Depth 47 ft. Cased Depth 42 ft. Open Hole: From _____ To _____ ft. Screen: From 42 To 47 ft. Slot Size 010

17. Abandonment: ☐ Other (Explain) _____
From 0 ft. To 47 ft. No. of Bags 2.5 Seal Material (Check One): ☒ Neat Cement ☐ Bentonite ☐ Other _____
From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____

18. Surface Casing Diameter and Depth:
Dia 2 in. From 0 ft. To 42 ft. No. of Bags _____ Seal Material (Check One): ☒ Neat Cement ☐ Bentonite ☐ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____

19. Primary Casing Diameter and Depth:
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____

20. Liner Casing Diameter and Depth:
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____

21. Telescope Casing Diameter and Depth:
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____

22. Pump Type (If Known): N/A
☐ Centrifugal ☒ Jet ☐ Submersible ☐ Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ ft. Intake Depth _____ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
Laboratory Test _____ Field Test Kit _____

24. Water Well Contractor:
Contractor Name Raymond Robinson License Number 2633 E-mail Address rrobinson@core-eval.com
Contractor's Signature [Signature] Driller's Name (Print or Type) Richard Allen
(I certify that the information provided in this report is accurate and true.)

*Permit No.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

'DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

[illegible]

Comments:

***Detailed Site Map of Well Location**

SEE
Attached
site map
& GPS coordinates

Wells abandoned on this permit

OpF3-Iw01S	15.25'
OpF3-Iw01D	46.90'
OpF3-Iw02D	46.80'



OPF-3 Confirmatory Sampling Locations Survey Info

Point	Easting	Northing	El.	Well	Description	El. (feet)
ODOP	234503.108	471372.213	1.645		Control Point	5.397
1	234090.717	471571.664	2.057	DPT	13	6.749
2	234091.961	471571.962	2.083	PZ-4	Top Of Casing	6.834
3	234091.373	471571.816	2.064		Ground El.	6.772
4	234089.332	471543.930	1.262	SEDIMENT	9	4.140
5	234059.827	471477.196	1.581	DPT	14	5.187
6	234061.271	471478.854	2.325	IW-1S	Top Of Casing	7.628
7	234060.809	471478.359	1.561		Ground El.	5.121
8	234092.633	471421.239	1.465	DPT	15	4.806
9	234094.894	471421.831	2.531	PZ-5	Top Of Casing	8.304
10	234094.755	471421.736	1.469		Ground El.	4.820
13	234003.189	471398.519	2.376	PZ-6	Top Of Casing	7.795
12	234003.159	471398.422	1.911		Ground El.	6.270
14	233883.060	471369.143	2.336	PZ-7	Top Of Casing	7.664
15	233883.135	471369.058	2.039		Ground El.	6.690
16	233960.292	471529.513	2.099	DPT	3	6.886
17	233990.203	471530.956	1.774	DPT	4C	5.820
18	233999.573	471538.268	1.771	DPT	4W	5.810
19	234002.051	471540.908	1.802	DPT	4N	5.912
20	234006.881	471540.390	1.763	DPT	4E	5.784
21	234003.515	471535.752	1.765	DPT	4S	5.791
22	233993.656	471542.430	2.199	PZ-2	Top Of Casing	7.215
23	233993.781	471542.447	1.927		Ground El.	6.322
24	234008.449	471533.891	1.710	DPT	4B	5.610
25	234011.655	471535.200	1.703	DPT	4D	5.587
26	234031.612	471513.875	1.445	SEDIMENT	8	4.741
27	234050.761	471533.872	1.542	SW	7	5.059
28	234041.960	471550.301	2.132	DPT	11	6.995
29	234050.193	471508.324	1.449	DPT	6	4.754
30	234017.308	471550.249	1.994	DPT	5	6.542
31	233937.418	471529.982	2.179	DPT	2	7.149
32	233908.957	471521.032	2.197	DPT	10	7.208
33	233889.217	471512.148	2.000	DPT	1	6.562
34	233887.762	471510.788	2.342	PZ-1	Top Of Casing	7.684
35	233887.812	471510.700	1.988		Ground El.	6.522
36	233850.635	471578.079	1.990	DPT	16	6.529
38	233936.894	471598.712	1.867		Ground El.	6.125
37	233937.074	471598.979	1.778	PZ-3	Top Of Casing	5.833
39	234104.603	471478.486	2.202	SET PK	Control Point	7.224

**NOTE: Coordinates are in meters, State Plane of 1983.
Elevations are in meters, NAVD of 1988.**

42969

NSC-TA-0034
OFF-3 RFI WP
Revision 5
April 2004

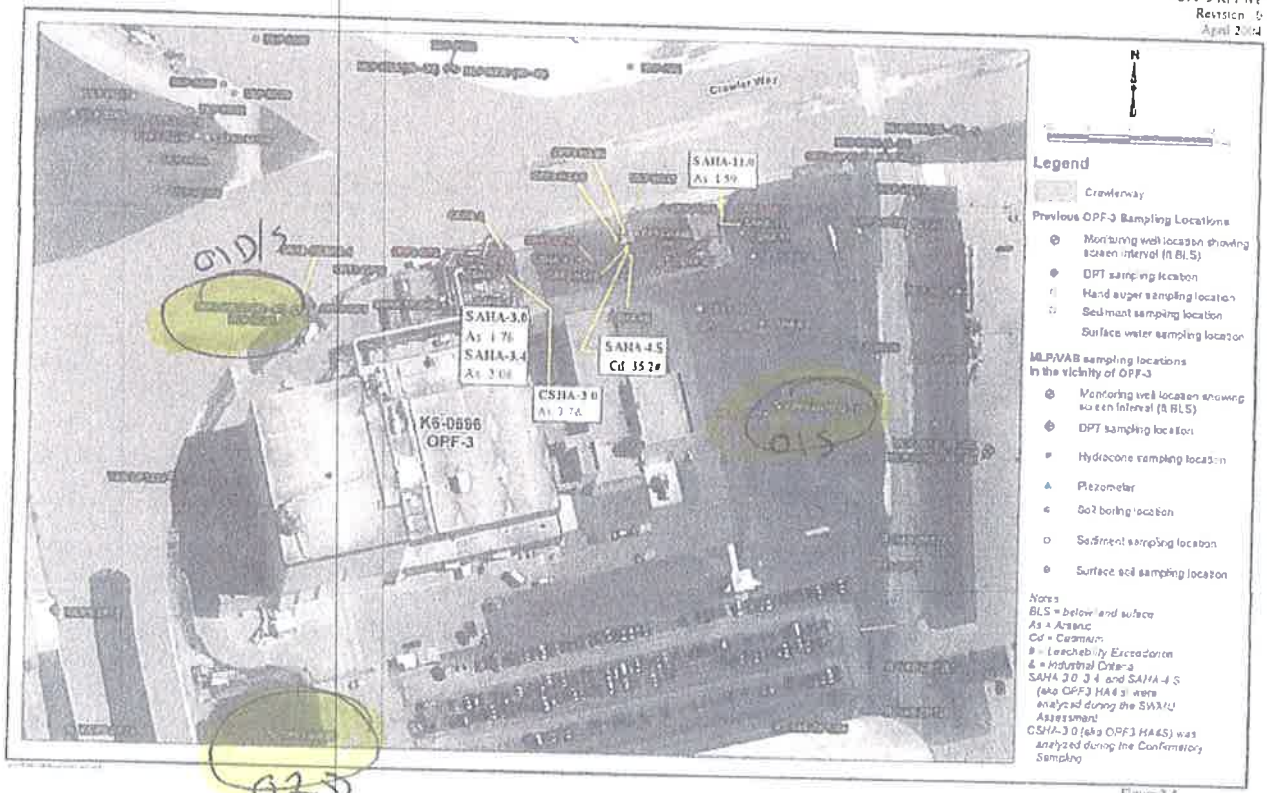


Figure 2-5
Exceedences in Soil During
SA and CS Activities at OFF-3
2-13-2004

RECEIVED

JAN 20 2004

DCM

DISPLAY IN A CONSPICUOUS PLACE - THIS PERMIT IS NON-TRANSFERABLE

Permit No.

42970

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-0999
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
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P.O. BOX 24680
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WEST PALM BEACH, FL 33416-4680
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SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

Comments:

- Abandon per Ch 40C-3 + 62-532.
- Submit completion reports within 30 days
of completion.

*General Site Map of Proposed Well Location

SEE Attached site map
& GPS Coordinates



Issuance of this permit does
not relieve the well owner of
meeting the permit requirements
of county, municipal, or other
legally constituted authorities.

Roads and Grounds

Identify known roads and landmarks. Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources, if applicable.



STATE OF FLORIDA WELL COMPLETION REPORT

- ☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(* Denotes Required Fields Where Applicable)

☒ Delegated Authority (If Applicable) Brevard County

Date Stamp

Official Use Only

1. Permit Number <u>42970</u>		CUPWUP Number		DID Number		62-524 Delineation No.			
2. Number of permitted wells constructed, repaired, or abandoned <u>3</u>		Number of permitted wells not constructed, repaired, or abandoned <u>0</u>							
3. Owner's Name <u>NASA John F Kennedy Space Center</u>		Completion Date <u>1-29-16</u>		5. Florida Unique ID					
6. <u>ROB support FWC KSC-T4-7878 Kennedy Space Center FL</u>		Well Location - Address, Road Name or Number, City, ZIP							
7. County <u>Brevard</u>		Section		Land Grant		Township		Range	
8. Latitude		Longitude							
9. Data Obtained From: <input checked="" type="checkbox"/> GPS		Map		Survey		Datum: <u>NAD 27</u>		<u>NAD 83</u> <u>WGS 84</u>	
10. Type of Work: <input type="checkbox"/> Construction <input type="checkbox"/> Repair <input type="checkbox"/> Modification <input checked="" type="checkbox"/> Abandonment									
11. Specify Intended Use(s) of Well(s):									
<input type="checkbox"/> Domestic		<input type="checkbox"/> Landscape Irrigation		<input type="checkbox"/> Agricultural Irrigation		<input type="checkbox"/> Site Investigation			
<input type="checkbox"/> Bottled Water Supply		<input type="checkbox"/> Recreation Area Irrigation		<input type="checkbox"/> Livestock		<input checked="" type="checkbox"/> Monitoring			
<input type="checkbox"/> Public Water Supply (Limited Use/DOH)				<input type="checkbox"/> Nursery Irrigation		<input type="checkbox"/> Test			
<input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP)				<input type="checkbox"/> Commercial/Industrial		<input type="checkbox"/> Earth-Coupled Geothermal			
<input type="checkbox"/> Class I Injection				<input type="checkbox"/> Golf Course Irrigation		<input type="checkbox"/> HVAC Supply			
Class V Injection: <input type="checkbox"/> Recharge <input type="checkbox"/> Commercial/Industrial Disposal <input type="checkbox"/> Aquifer Storage and Recovery <input type="checkbox"/> Drainage									
Remediation: <input type="checkbox"/> Recovery <input type="checkbox"/> Air Sparge <input type="checkbox"/> Other (Describe)									
12. Drill Method: <input type="checkbox"/> Auger <input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary <input type="checkbox"/> Combination (Two or More Methods) <input checked="" type="checkbox"/> Other <u>Immersion Grout</u>									
13. Measured Static Water Level <u> </u> ft.		Measured Pumping Water Level <u> </u> ft.		After <u> </u> Hours at <u> </u> GPM					
14. Measuring Point (Describe)		Which is <u> </u> ft. Above <u> </u> Below Land Surface		Flowing: <input type="checkbox"/> Yes <input type="checkbox"/> No					
15. Casing Material: <input type="checkbox"/> Black Steel <input type="checkbox"/> Galvanized <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Not Cased <input type="checkbox"/> Other									
16. Total Well Depth <u>15</u> ft.		Cased Depth <u>5</u> ft.		Open Hole: From <u>5</u> To <u>15</u> ft.		Screen: From <u>5</u> To <u>15</u> ft.		Slot Size <u>10/10</u>	
17. Abandonment: <input type="checkbox"/> Other (Explain)									
From <u>0</u> ft. To <u>15</u> ft. No. of Bags <u>1.5</u>		Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other							
From <u> </u> ft. To <u> </u> ft. No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other							
From <u> </u> ft. To <u> </u> ft. No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other							
From <u> </u> ft. To <u> </u> ft. No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other							
From <u> </u> ft. To <u> </u> ft. No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other							
18. Surface Casing Diameter and Depth:									
Dia <u>2</u> in. From <u>0</u> ft. To <u>5</u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
19. Primary Casing Diameter and Depth:									
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
20. Liner Casing Diameter and Depth:									
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
21. Telescope Casing Diameter and Depth:									
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
Dia <u> </u> in. From <u> </u> ft. To <u> </u> ft.		No. of Bags <u> </u>		Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other					
22. Pump Type (If Known): <u>N/A</u>									
<input type="checkbox"/> Centrifugal <input type="checkbox"/> Jet <input type="checkbox"/> Submersible <input type="checkbox"/> Turbine									
Horsepower <u> </u> Pump Capacity (GPM) <u> </u>									
Pump Depth <u> </u> ft. Intake Depth <u> </u> ft.									
23. Chemical Analysis (When Required):									
Iron <u> </u> ppm Sulfate <u> </u> ppm Chloride <u> </u> ppm									
Laboratory Test <input type="checkbox"/> Field Test Kit <input type="checkbox"/>									
24. Water Well Contractor:									
Contractor Name <u>Raymond Robinson</u>		License Number <u>2633</u>		E-mail Address <u>robinson@care-eval.com</u>					
Contractor's Signature <u>[Signature]</u>		Driller's Name (Print or Type) <u>Richard Allen</u>							

"Permit No.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

*DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

[illegible]

Comments:

Detailed Site Map of Well Location

SEE
Attached
site map
iGPS coordinates



Table 3-2
RFI Survey Data
Roads and Grounds Facility
RCRA Facility Investigation Report
NASA Kennedy Space Center, Florida

KSC-TA-7878
 RDG RFI
 Revision: 0
 November 2005

Sample ID	Meters				Feet			
	Northing	Easting	Ground Elevation (ft NGVD)	Top of Casing Elevation (ft NGVD)	Northing	Easting	Ground Elevation (ft NGVD)	Top of Casing Elevation (ft NGVD)
RDG-MW0001	469340.64	234018.75	1.20	1.22	1539828.40	767776.50	4.10	4.00
RDG-MW0002	469264.47	233954.51	2.22	2.23	1539578.50	767565.80	7.30	7.30
RDG-MW0003	469257.88	233920.70	2.52	2.47	1539556.90	767454.80	8.30	8.11
RDG-SB0001	469335.44	234010.29	1.56	—	1539811.40	767748.80	5.10	—
RDG-SB0002	469334.85	234012.67	1.55	—	1539809.40	767756.60	5.10	—
RDG-SB0003	469332.14	234010.30	1.58	—	1539800.50	767748.80	5.20	—
RDG-SB0004	469351.76	234017.68	1.20	—	1539864.90	767773.00	3.90	—
RDG-SB0005	469345.20	233930.68	2.13	—	1539843.40	767487.60	7.00	—
RDG-SB0006	469273.37	233914.91	2.32	—	1539607.70	767435.80	7.60	—
RDG-SB0007	469254.18	233908.13	2.29	—	1539544.80	767413.60	7.50	—
RDG-SB0008	469244.76	233923.58	2.42	—	1539513.90	767464.30	8.00	—
RDG-SB0009	469273.01	233962.31	2.00	—	1539606.50	767591.30	6.60	—
RDG-SB0010	469276.37	233987.25	1.64	—	1539617.60	767673.20	5.40	—
RDG-SB0011	469255.51	233951.25	2.22	—	1539549.10	767555.10	7.30	—
RDG-SB0012	469264.85	233912.08	2.28	—	1539579.70	767426.50	7.50	—
RDG-SD0001	469379.15	234022.52	0.71	—	1539954.80	767788.90	2.30	—
RDG-SW0001	469331.84	234022.48	0.86	—	1539799.50	767788.70	2.80	—
RDG-SW0002	469419.40	234020.97	0.90	—	1540086.80	767783.80	3.00	—

Notes:

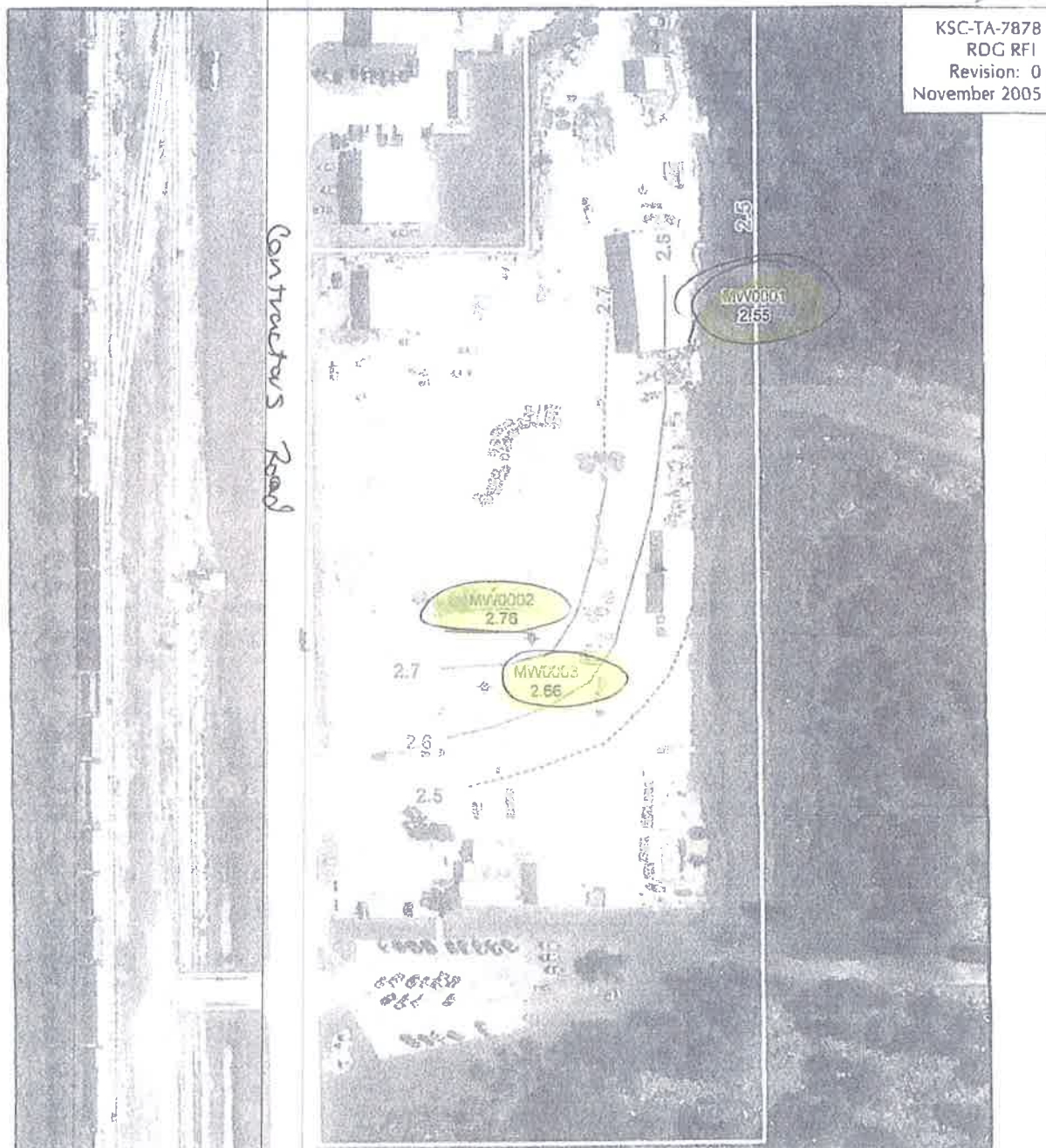
ft NGVD - feet National Geodetic Vertical Datum

Horizontal Survey Data are in National American Datum 1988, feet and meters

Vertical Survey Data are in National American Datum 1983, feet and meters

42970

KSC-TA-7878
RDG RFI
Revision: 0
November 2005



Legend

- SWMU Boundary
- ◆ Monitoring Well Location
- Groundwater Contours
- Inferred Groundwater Contour
- Groundwater Contour

Notes

RCRA - Resource, Conservation, and Recovery Act
RFI - RCRA Facility Investigation
SWMU - Solid Waste Management Unit

RECEIVED

JAN 20 2006

BY: QCH

0 150 300

Scale in Feet

Groundwater Contours for August 18, 2005 Roads and Grounds Facility RCRA Facility Investigation

NASA Kennedy Space Center, Florida

Project Number: 004-11302-22

Figure 3-2



FLORIDA DEPARTMENT OF HEALTH – BREVARD COUNTY
 Environmental Health Services
 2725 Judge Fran Jamieson Way, Suite A116
 Viera, Florida 32940-6605
 PHONE: 321/633-2100 FAX: 321/633-2151
 www.BrevardEH.com

WELL CONSTRUCTION PERMIT

Permit Number: 42971
 Purpose: ABANDONMENT
 Subdivision/Lot#: K6-446

Application Date: 1/20/2016
 Expiration Date: 1/20/2017
 Permit Fee: \$35.00

Well Site Address: SRB PROCESSING FACILITY
 KENNEDY SPACE CENTER FL

Well Contractor: Raymond Robinson WWC #: 2633

WWC Phone #: 407-467-7857

Owner Name: UNITED STATES GOVERNMENT
 Owner Address: P O BOX 366

Suite/Unit#:

Owner Phone #: TITUSVILLE FL 32781-

Issuance of this permit does not relieve the well owner of meeting the permit requirements of county, municipal, or other legally constituted authorities. The well contractor must meet the well set-back per Chapter 62-532, F.A.C., Table 1. Any variance from these setbacks or change to site plan must be approved in advance by Environmental Health Services.

Inspection Details:

Circle One: OSTDS or Sewer

Foundation Setback: _____'

☐ Site Plan

☐ OSTDS Site Setback _____'

☐ Variance Application Date ____/____/____

☐ Well ID Tag

☐ OSTDS AP Setback _____'

☐ Variance Approval Date ____/____/____

☐ Casing Height _____"

☐ OSTDS/Well - Final ____/____/____

☐ Warning Notice Sent ____/____/____

☐ Grout Depth _____"

☐ Bacteriological Result ____/____/____

☐ Compliance Letter Sent ____/____/____

☐ Completion Report ____/____/____

☐ Nitrate Result ____/____/____

☐ Other: _____

Notes:

--	--

	Original Site Visit	Construction Date	Re-Inspection Date	Final Date
Date				
Initials				

THIS PERMIT IS ISSUED BY THE AUTHORIZED REPRESENTATIVE OF THE FLORIDA DEPARTMENT OF HEALTH UNDER THE AUTHORITY OF CHAPTER 381, 402, 403, 513, 514, AND 489 PART III, FLORIDA STATUTES, FLORIDA ADMINISTRATIVE CODE AND BREVARD COUNTY CODE SECTION 46-35 THRU 46-72 ARTICLE II: ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS AND WATER WELL PERMITTING. THIS PERMIT IS SUBJECT TO SUSPENSION OR REVOCATION WHEN IT IS DETERMINED BY THE DEPARTMENT THAT THE OPERATION, CONDITIONS AND/OR DEPARTMENT STANDARDS ARE NOT BEING MET.

DISPLAY IN A CONSPICUOUS PLACE – THIS PERMIT IS NON-TRANSFERABLE



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT,
REPAIR, MODIFY, OR ABANDON A WELL

- ☐ Southwest
☒ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☒ Delegated Authority (If Applicable) Brevard - FLDON

PLEASE PRINT IN ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)

The water well contractor is responsible for completing
this form and forwarding the permit application to the
appropriate regulatory authority where applicable.

Permit No. 42971
Florida Unique ID _____
Permit Stipulations Required (See Attached) _____
62-524 Quad No _____ Delineation No _____
CUP/WUP Application No _____
ABOVE THIS LINE - FOR OFFICIAL USE ONLY

1. NASA John F. Kennedy Space Center Kennedy Space Center FL
Owner, Legal Name if Corporation Address City State ZIP Telephone Number
2. NASA/KSC K6-8446 Kennedy Space Center FL
Well Location - Address Road Name or Number, City
3. 22-36-22-00-00-00 00 00 00
Parcel ID No. (PIN) or Alternate Key (Circle One) Lot Block Unit
4. 22 22 36 2633 407-467-7857 robinson@core-eucon.com
Section or Land Grant Township Range County Subdivision Check if 62-524 Yes No
5. Raymond Robinson 1020 Railroad Ave Winter Park FL 32789
Water Well Contractor's Address City State ZIP
6. 1020 Railroad Ave Winter Park FL 32789
Water Well Contractor's Address City State ZIP
7. Type of Work: Construction Repair Modification ☒ Abandonment No Longer Needed
8. Number of Proposed Wells 1
9. Specify Intended Use(s) of Well(s)
☐ Domestic ☐ Landscape Irrigation ☐ Agricultural Irrigation ☐ Site Investigation
☐ Bottled Water Supply ☐ Recreation Area Irrigation ☐ Livestock ☒ Monitoring
☐ Public Water Supply (Limited Use/DOH) ☐ Nursery Irrigation ☐ Test
☐ Public Water Supply (Community or Non-Community/DEP) ☐ Commercial/Industrial ☐ Earth-Coupled Geothermal
☐ Class I Injection ☐ Golf Course Irrigation ☐ HVAC Supply
☐ HVAC Return
Class V Injection: ☐ Recharge ☐ Commercial/Industrial Disposal ☐ Aquifer Storage and Recovery ☐ Drainage
Remediation: ☐ Recovery ☐ Air Sparge ☐ Other (Describe) _____
Other (Describe) _____
10. Distance from Septic System if ≤ 200 ft. WLC 11. Facility Description SRB Processing 12. Estimated Start Date 1-25-16
13. Estimated Well Depth 13 ft. Estimated Casing Depth 3 ft. Primary Casing Diameter 2 in. Open Hole: From _____ To _____ ft.
14. Estimated Screen Interval: From 3 To 13 ft.
15. Primary Casing Material ☐ Black Steel ☐ Galvanized ☒ PVC ☐ Stainless Steel
☐ Not Cased ☐ Other _____
16. Secondary Casing ☐ Telephone Casing ☐ Liner ☐ Surface Casing Diameter _____ in.
17. Secondary Casing Material ☐ Black Steel ☐ Galvanized ☐ PVC ☐ Stainless Steel ☐ Other _____
18. Method of Construction: Repair, or Abandonment. ☐ Auger ☐ Cable Tool ☐ Jetted ☐ Rotary ☐ Sonic
☐ Combination (Two or More Methods) ☐ Hand Driven (Well Point, Sand Point) ☐ Hydraulic Point (Direct Push)
☐ Horizontal Drilling ☒ Plugged by Approved Method ☒ Other (Describe) Trimmed Grout
19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing
From 0 To 13 Seal Material ☒ Bentonite ☐ Neat Cement ☐ Other _____
From _____ To _____ Seal Material ☐ Bentonite ☐ Neat Cement ☐ Other _____
From _____ To _____ Seal Material ☐ Bentonite ☐ Neat Cement ☐ Other _____
From _____ To _____ Seal Material ☐ Bentonite ☐ Neat Cement ☐ Other _____
20. Indicate total number of existing wells on site 1 List number of existing unused wells on site _____
21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive Water Use Permit (CUP/WUP)
or CUP/WUP Application? Yes ☒ No ☐ If yes, complete the following: CUP/WUP No. _____ District Well ID No. _____
22. DATE 1547764.50 611229.58
Latitude Longitude
23. Data Obtained From ☒ GPS ☐ Map ☐ Survey Datum ☐ NAD 27 ☒ NAD 83 ☐ WGS 84
I hereby certify that I am a duly licensed water well contractor in the State of Florida and that I am not a party to any other permit for the construction, repair, modification, or abandonment of this well.
I hereby certify that I am a duly licensed water well contractor in the State of Florida and that I am not a party to any other permit for the construction, repair, modification, or abandonment of this well.
Signature of Contractor Raymond Robinson License No. 2633 Signature of District Agent Raymond Robinson Date 1-18-16
BELOW THIS LINE - FOR OFFICIAL USE ONLY
Approval Granted By Jill Love Issue Date 1/21/16 Expiration Date 1/21/17 Hydrologist Approval _____
Fee Received \$ 35.00 Receipt No. VISA 077366 Check No. _____
THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE
PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.
DEP Form 62-532 90011; Incorporated in 62-532 400(1); F.A.C. Effective Date: October 7, 2010 Page 1 of 2

Permit No.

42971

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SFWWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NFWWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

Comments:

- Abandon per Ch 401-3 + 62-532
- Submit completion report within 30 days
of completion.

*General Site Map of Proposed Well Location

SEE Attached site map



Issuance of this permit does
not relieve the well owner of
meeting the permit requirements
of county, municipal, or other
legally constituted authorities.

SRB

Identify known roads and landmarks. Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources, if applicable.



STATE OF FLORIDA WELL COMPLETION REPORT

- ☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☒ Delegated Authority (If Applicable)

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(* Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

Brevard County

1. Permit Number <u>42971</u>		CUP/WUP Number _____		DID Number _____		62-524 Delineation No. _____																									
2. Number of permitted wells constructed, repaired, or abandoned <u>1</u>		Number of permitted wells not constructed, repaired, or abandoned <u>0</u>																													
3. Owner's Name <u>NASA John F Kennedy Space Center</u>		Completion Date <u>1-29-16</u>		5. Florida Unique ID _____																											
6. <u>Solid Rocket Booster Processing Facility NASA KSC FL</u> Well Location - Address, Road Name or Number, City, ZIP																															
7. County <u>Brevard</u>		Section _____		Land Grant _____		Township _____ Range _____																									
8. Latitude _____		Longitude _____																													
9. Data Obtained From: <u>GPS</u> Map _____ Survey _____ Datum: <u>NAD 27</u> <u>NAD 83</u> <u>WGS 84</u>																															
10. Type of Work: _____ Construction _____ Repair _____ Modification <u>X</u> Abandonment																															
11. Specify Intended Use(s) of Well(s): <table border="0"><tr><td><input type="checkbox"/> Domestic</td><td><input type="checkbox"/> Landscape Irrigation</td><td><input type="checkbox"/> Agricultural Irrigation</td><td><input type="checkbox"/> Site Investigation</td></tr><tr><td><input type="checkbox"/> Bottled Water Supply</td><td><input type="checkbox"/> Recreation Area Irrigation</td><td><input type="checkbox"/> Livestock</td><td><input checked="" type="checkbox"/> Monitoring</td></tr><tr><td><input type="checkbox"/> Public Water Supply (Limited Use/DOH)</td><td></td><td><input type="checkbox"/> Nursery Irrigation</td><td><input type="checkbox"/> Test</td></tr><tr><td><input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP)</td><td></td><td><input type="checkbox"/> Commercial/Industrial</td><td><input type="checkbox"/> Earth-Coupled Geothermal</td></tr><tr><td><input type="checkbox"/> Class I Injection</td><td></td><td><input type="checkbox"/> Golf Course Irrigation</td><td><input type="checkbox"/> HVAC Supply</td></tr><tr><td></td><td></td><td></td><td><input type="checkbox"/> HVAC Return</td></tr></table>								<input type="checkbox"/> Domestic	<input type="checkbox"/> Landscape Irrigation	<input type="checkbox"/> Agricultural Irrigation	<input type="checkbox"/> Site Investigation	<input type="checkbox"/> Bottled Water Supply	<input type="checkbox"/> Recreation Area Irrigation	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Public Water Supply (Limited Use/DOH)		<input type="checkbox"/> Nursery Irrigation	<input type="checkbox"/> Test	<input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP)		<input type="checkbox"/> Commercial/Industrial	<input type="checkbox"/> Earth-Coupled Geothermal	<input type="checkbox"/> Class I Injection		<input type="checkbox"/> Golf Course Irrigation	<input type="checkbox"/> HVAC Supply				<input type="checkbox"/> HVAC Return
<input type="checkbox"/> Domestic	<input type="checkbox"/> Landscape Irrigation	<input type="checkbox"/> Agricultural Irrigation	<input type="checkbox"/> Site Investigation																												
<input type="checkbox"/> Bottled Water Supply	<input type="checkbox"/> Recreation Area Irrigation	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Monitoring																												
<input type="checkbox"/> Public Water Supply (Limited Use/DOH)		<input type="checkbox"/> Nursery Irrigation	<input type="checkbox"/> Test																												
<input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP)		<input type="checkbox"/> Commercial/Industrial	<input type="checkbox"/> Earth-Coupled Geothermal																												
<input type="checkbox"/> Class I Injection		<input type="checkbox"/> Golf Course Irrigation	<input type="checkbox"/> HVAC Supply																												
			<input type="checkbox"/> HVAC Return																												
Class V Injection: _____ Recharge _____ Commercial/Industrial Disposal _____ Aquifer Storage and Recovery _____ Drainage																															
Remediation: _____ Recovery _____ Air Sparge _____ Other (Describe) _____																															
12. Drill Method: _____ Auger _____ Cable Tool _____ Rotary _____ Combination (Two or More Methods) _____ Jetted _____ Sonic _____ Horizontal Drilling _____ Hydraulic Point (Direct Push) <u>X</u> Other <u>Trimming Grout</u>																															
13. Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM																															
14. Measuring Point (Describe) _____ Which is _____ ft. Above _____ Below Land Surface Flowing: _____ Yes _____ No																															
15. Casing Material: _____ Black Steel _____ Galvanized _____ <u>X</u> PVC _____ Stainless Steel _____ Not Cased _____ Other _____																															
16. Total Well Depth <u>12.8</u> ft. Cased Depth <u>2.8</u> ft. Open Hole: From _____ To _____ ft. Screen: From <u>2.8</u> To <u>12.8</u> ft. Slot Size <u>010</u>																															
17. Abandonment: _____ Other (Explain) _____ From _____ ft. To <u>12.8</u> ft. No. of Bags <u>1</u> Seal Material (Check One): <u>X</u> Neat Cement _____ Bentonite _____ Other _____ From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____																															
18. Surface Casing Diameter and Depth: Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____																															
19. Primary Casing Diameter and Depth: Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____																															
20. Liner Casing Diameter and Depth: Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____																															
21. Telescope Casing Diameter and Depth: Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia. _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____																															
22. Pump Type (If Known): _____ Centrifugal _____ Jet _____ Submersible _____ Turbine _____ Horsepower _____ Pump Capacity (GPM) _____ Pump Depth _____ ft. Intake Depth _____ ft.																															
23. Chemical Analysis (When Required): Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Laboratory Test _____ Field Test Kit _____																															
24. Water Well Contractor: Contractor Name <u>Raymond Robinson</u> License Number <u>2633</u> E-mail Address <u>rrobinson@core-environment.com</u> Contractor's Signature <u>[Signature]</u> Driller's Name (Print or Type) <u>Richard Allen</u>																															

*Permit No.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

Comments:

Detailed Site Map of Well Location

SEE
Attached
site map



Figure 2-6. SRB Processing Facility Confirmatory Sampling Human Health Exceedances



Source: Confirmatory Sampling Report, Solid Rocket Booster Processing Facility, May 2001.